

Rat Corticosterone ELISA Kit | CORT elisa kit

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CATALOG #
AAA17435

REACTIVITY
Rat

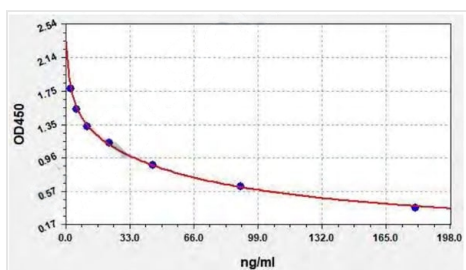
PRODUCT SYNONYMS

Corticosterone; Rat Corticosterone ELISA Kit; CORT; CORT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Specifically recognize CORT, no obvious cross reaction with other analogues
Assay Type	Competitive
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	2.813-180ng/ml
Sensitivity	1.688ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CORT elisa kit	Background: Corticosterone is a type of steroid hormone called a corticosteroid that is also secreted by the adrenal glands. Its actions in the body are similar to Cortisol, including suppressing inflammatory responses, regulating the immune system, promoting protein breakdown, and increasing glucose production for energy consumption. Additionally, Corticosterone is involved in many other physiological processes, such as sleep, memory, and learning. The levels of Corticosterone can be influenced by many factors, such as stress, diet, immune system, and illness. Inappropriate levels of Corticosterone can lead to a range of health problems, such as immune system dysfunction, cardiovascular disease, anxiety, and depression. Principle of the Assay: This kit was based on Competitive-ELISA detection method. The microtiter plate provided in this kit has been pre-coated with CORT. During the reaction, CORT in the sample or standard competes with a fixed amount of CORT on the solid phase supporter for sites on the Biotinylated Detection Antibody specific to CORT. Excess conjugate and unbound sample or standard are washed from the plate, and HRP-Streptavidin (SABC) is added to each microplate well and incubated. Then TMB substrate solution is added to each well. The enzyme substrate reaction is terminated by the addition of an acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm. The concentration of CORT in the samples is then determined by comparing the OD of the samples to the standard curve. The concentration of the target substance was inversely proportional to the OD450 value.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cort-rat-elisa-kits/corticosterone/17435>